

**Amendments to the Claims:**

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently amended) A transmission system comprising: ~~at least~~

a transmitter,

a transmission network having a time varying state, and

a receiver,

wherein:

~~said the~~ transmitter ~~comprising~~ includes an encoder for generating redundancy packets ~~(R(i))~~ from media packets ~~(M(i))~~ so as to provide an error correction capability of ~~a certain number of packets (Q(k))~~ at ~~said the~~ receiver, ~~said the~~ correction capability depending on the amount of redundancy ~~(n-k)~~ generated by ~~said the~~ encoder,

~~said the~~ receiver ~~comprising~~ includes an analyser ~~for analysing the~~ that is configured to analyze packet errors occurring on the transmission network, and ~~for computing~~ determine an optimal amount of redundancy that ~~gives~~ provides an error correction capability allowing to respect a maximum tolerated packet error rate ~~(PER<sub>MAX</sub>)~~, ~~said and is configured to communicate the~~ optimal amount of redundancy being ~~fed back to said the~~ transmitter ~~so as to be used for use by said the~~ encoder.

2. (Currently amended) A ~~The~~ transmission system ~~as claimed in of~~ claim 1, wherein ~~said the~~ transmitter ~~comprises~~ includes a media source for delivering ~~said the~~ media packets with an adaptable media bitrate, and ~~said the~~ encoder is designed to ~~send to said media source an order for adapting said control the~~ media bitrate depending on the amount of redundancy currently added by the encoder.

3. (Currently amended) ~~A~~ The transmission system as claimed in of claim 1, wherein ~~(n-k) redundancy packets are generated from k media packets so as to form a transmission block of n packets, and said the~~ analyser is designed to:

a) ~~keep a history of the numbers  $B_i$  of packet errors in a plurality of transmission blocks,~~

b) ~~and for different numbers of possible redundancy packets in each transmission block values of k:~~

[[ - ]] ~~calculate a mean value  $G(k)$  of the numbers  $G_i(k)$  of packet errors in a the plurality of transmission blocks after correction with an error correction capability corresponding to the number of possible redundancy packets of  $Q(k)$ ,~~

[[ - ]] ~~calculate the a corresponding packet error rate based on the mean value  $(G(k)/n)$ ,~~

[[ - ]] ~~compare the corresponding packet error rate with said the maximum tolerated packet error rate ( $PER_{MAX}$ ) for selecting said the optimal value of k amount of redundancy.~~

4. (Currently amended) A receiver for receiving media packets and redundancy packets transmitted by a transmitter via a transmission network having a time-varying state, ~~said the~~ redundancy packets being generated from said the media packets so as to provide an error correction capability of a certain number of packets at said the receiver, said correction capability depending on the amount of redundancy generated at the transmitter, said the receiver comprising:

[[ - ]] ~~an analyser for analysing the packet errors occurring on the transmission network and for computing determining an optimal amount of redundancy that gives provides an error correction capability allowing to respect a maximum tolerated packet error rate ( $PER_{MAX}$ ), and~~

[[ - ]] ~~a feedback means for feeding device that is configured to feed back said the optimal amount of redundancy to said the transmitter.~~

5. (Currently amended) A ~~The receiver as claimed in of~~ claim 4, ~~intended to receive transmission blocks of n packets comprising k media packets and (n-k) redundancy packets generated from said k media packets,~~ wherein said the analyser is designed to:

a) keep a history of the number  $B_i$  of packet errors in a plurality of transmission blocks,

b) and for different numbers of possible redundancy packets ~~values of k:~~

[[~~-~~]] calculate a mean value  $C(k)$  ~~of the numbers  $C_i(k)$  of packet errors in a~~ the plurality of transmission blocks after correction with an error correction capability based on the number of possible redundancy packets of  $Q(k)$ ,

[[~~-~~]] calculate ~~the a~~ corresponding packet error rate  $(C(k)/n)$ ,

[[~~-~~]] compare the corresponding packet error rate with said the maximum tolerated packet error rate ( $PER_{MAX}$ ) ~~for selecting said the optimal amount of redundancy value of k.~~

6. (Currently amended) A ~~The receiver as claimed in of~~ claim 4, wherein the received media packets ~~an are~~ intended to be used by an application, and said the maximum tolerated packet error rate is set by said the application.

7. (Currently amended) A transmitter for transmitting packets to a receiver via a transmission network having a time varying state, said the transmitter comprising:

an encoder for generating redundancy packets from media packets so as to provide an error correction capability of a certain number of packets at the receiver, said the correction capability depending on the an amount of redundancy generated by said the encoder, and said

the encoder being designed to set said the amount of redundancy to an optimal value that gives an error correction capability allowing to respect a maximum tolerated packet error rate defined at the receiver, said the optimal value being fed back to said the transmitter by said the receiver based on prior transmissions from the transmitter.

8. (Currently amended) A ~~The~~ transmitter as ~~claimed in of~~ claim 7, comprising including a media source for delivering ~~said the~~ media packets with an adaptable media bitrate, wherein ~~said the~~ encoder is designed to ~~send to said media source an order for adapting said control the adaptable~~ media bitrate depending on the amount of redundancy ~~currently added~~ generated by the encoder.

9. (Currently amended) A method for determining an amount of redundancy to be used in a forward error correction scheme in which redundancy packets are generated from media packets at a transmitter side so as to provide a correction capability of a certain number of packets at a receiver side, ~~said the~~ method comprising ~~the steps of~~:

[[ - ]] analysing ~~the~~ packet errors occurring on the transmission network, at the receiver side,

[[ - ]] ~~computing~~ determining an optimal amount of redundancy that ~~gives~~ provides an error correction capability allowing to respect a maximum tolerated packet error rate, at the receiver side,

[[ - ]] ~~feeding back said~~ communicating the optimal amount of redundancy from the receiver to the transmitter.

10. (Currently amended) A program comprising instructions for implementing a the method as ~~claimed in of~~ claim 9 when ~~said the~~ program is executed by a processor.